

WHAT IS CLAIMED IS:

- 1 1. A method of manufacturing a vehicle pull handle assembly
2 comprising:
3 injection molding a pull strap portion in the first shot
4 of a two-shot molding process, wherein the pull strap portion
5 includes a first pivot joint member; and
6 over-molding a base onto the pull strap portion in the
7 second shot of the two-shot molding process, wherein the
8 base includes a second pivot joint member which pivotally
9 mates with said first pivot joint member but does not
10 chemically bond with the first pivot joint member in the final
11 molded pull handle assembly.
- 1 2. The method of claim 1, wherein said first pivot joint member
2 comprises a pivot aperture and said second pivot joint member comprises a hinge
3 pin engaged with said pivot aperture.
- 1 3. The method of claim 2, further comprising over-molding a
2 soft grip material onto the pull strap portion.
- 1 4. The method of claim 3, further comprising forming a hollow
2 channel in the pull strap portion by a gas assisted injection molding process.
- 1 5. A product manufactured by the process of claim 1.
- 1 6. The method of claim 1, further comprising insert-molding a
2 spring into the pull handle assembly to pivotally bias the pull strap portion with
3 respect to the base.
- 1 7. A method of manufacturing a vehicle pull handle assembly
2 comprising:

3 injection molding a base in the first shot of a two-shot
4 molding process; and
5 injection molding a pull strap portion onto the base in
6 the second shot of the two-shot molding process;
7 wherein the pull strap portion includes a first pivot
8 joint member and the base includes a second pivot joint
9 member which pivotally mates with said first pivot joint
10 member but does not chemically bond with the first pivot
11 joint member in the final molded pull handle assembly.

1 8. The method of claim 7, wherein said first pivot joint member
2 comprises a pivot aperture and said second pivot joint member comprises a hinge
3 pin engaged with said pivot aperture.

1 9. The method of claim 8, further comprising over-molding a
2 soft grip material onto the pull strap portion.

1 10. The method of claim 9, further comprising forming a hollow
2 channel in the pull strap portion by a gas assisted injection molding process.

1 11. A product manufactured by the process of claim 7.

1 12. The method of claim 7, further comprising insert-molding a
2 spring into the pull handle assembly to pivotally bias the pull strap portion with
3 respect to the base.

1 13. The method of claim 7, wherein said base is injection molded
2 with a material selected from a group of materials consisting of ABS and
3 polypropylene, and said pull strap portion is injection molded with the non-selected
4 member of said group.

1 14. A method of manufacturing a vehicle pull handle assembly
2 comprising:
3 injection molding a first pull handle member, wherein
4 the first pull handle member includes a first pivot joint
5 member; and
6 overmolding a second pull handle member onto the
7 first pull handle member, wherein the second pull handle
8 member includes a second pivot joint member which
9 pivotally mates with said first pivot joint member but does
10 not chemically band with the first pivot joint member in the
11 final molded pull handle assembly.

1 15. The method of claim 14, wherein said first pull handle
2 member comprises a pull strap portion and said second pull handle member
3 comprises a base.

1 16. The method of claim 14, wherein said first pivot joint member
2 comprises a pivot aperture and said second pivot joint member comprises a hinge
3 pin engaged with said pivot aperture.

1 17. The method of claim 16, further comprising over-molding a
2 soft grip material onto the pull strap portion.

1 18. The method of claim 17, further comprising forming a hollow
2 channel in the pull strap portion by a gas assisted injection molding process.

1 19. A product manufactured by the process of claim 14.

1 20. The method of claim 15, further comprising insert-molding
2 a spring into the pull handle assembly to pivotally bias the pull strap portion with
3 respect to the base.